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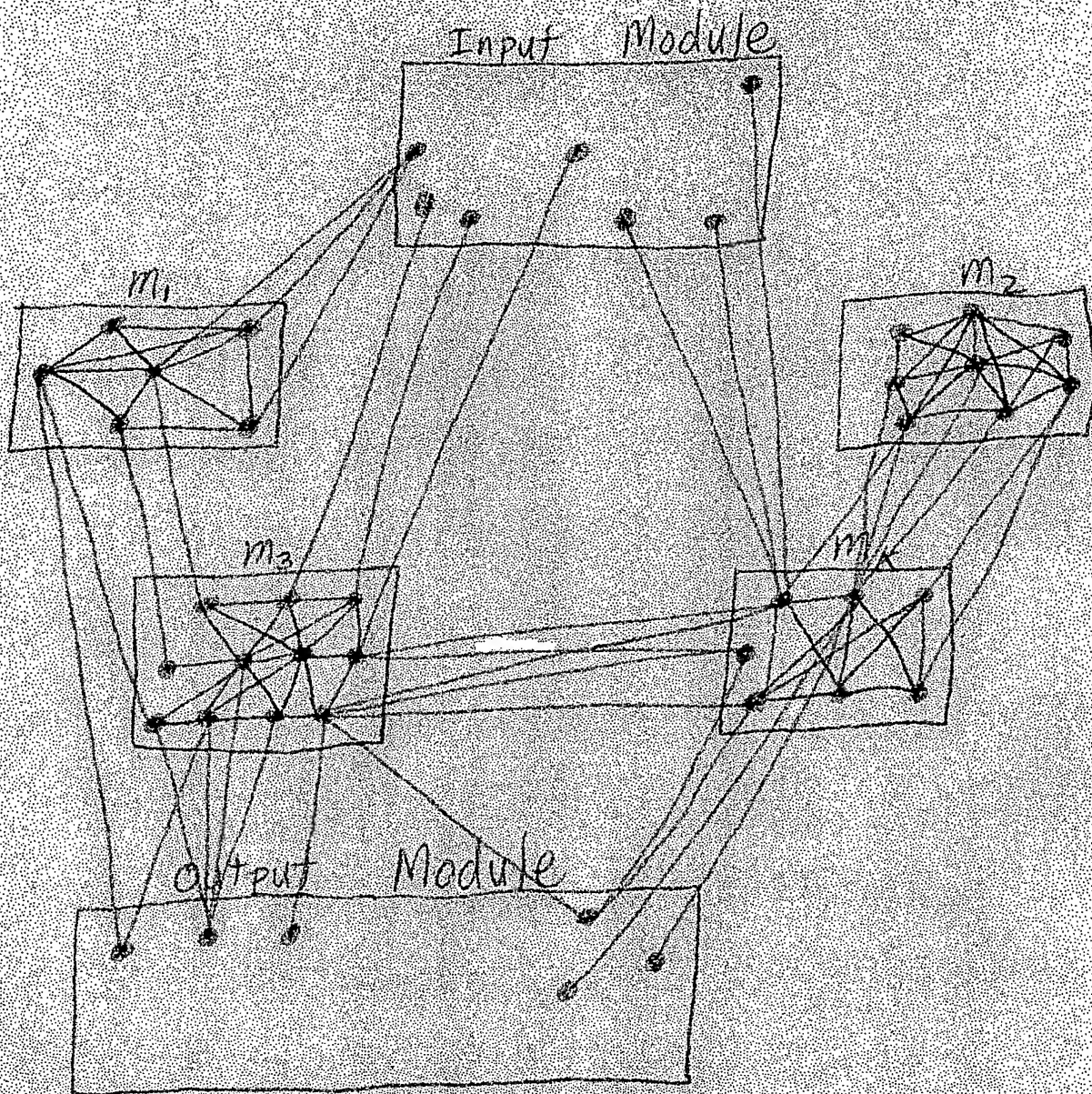
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Effector Machine Structure used in Cyclic Graph Evolution

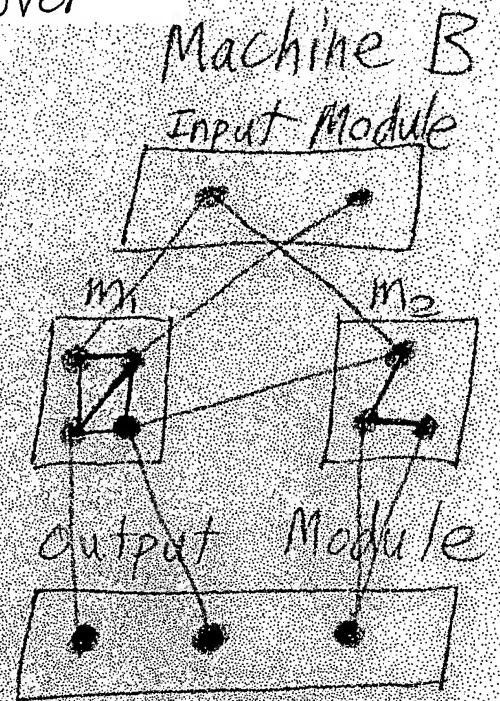
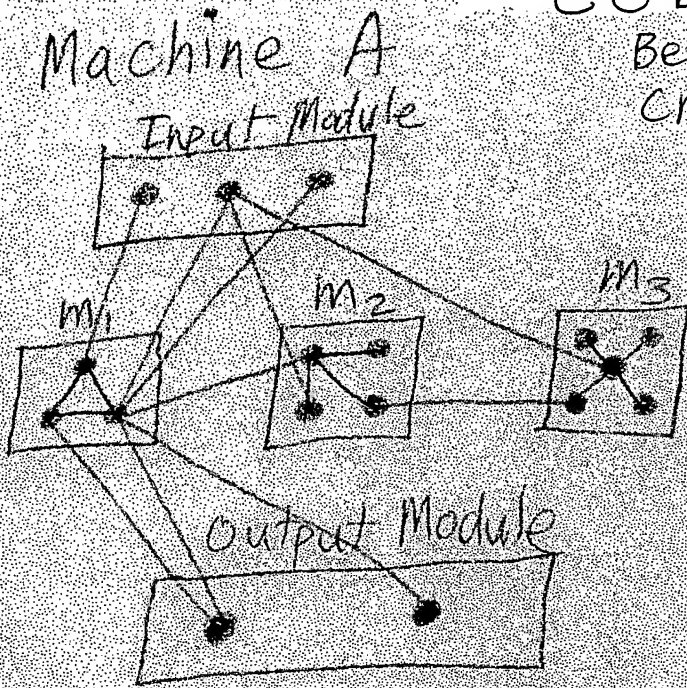


Internal modules are labeled:

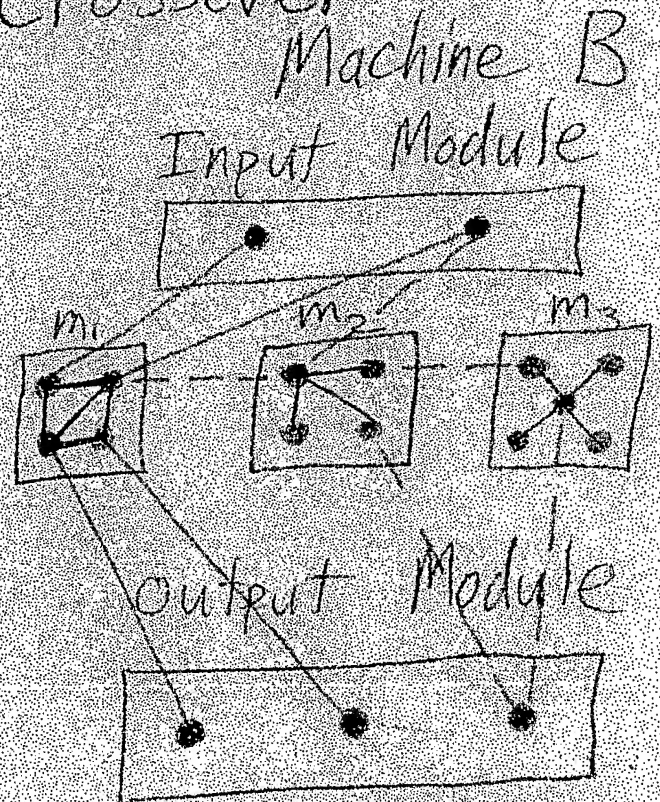
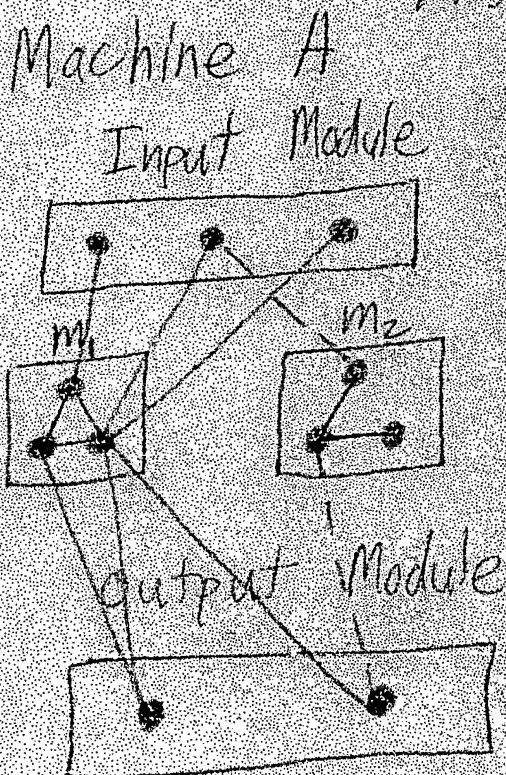
$m_1, m_2, m_3, \dots, m_k$

Internal connections lie completely within one rectangle, which represents one module. Non-zero external connections run from one module to another module. Effectors that have non-zero external connections to other modules are shown as large dots.

CGE Crossover Before Crossover

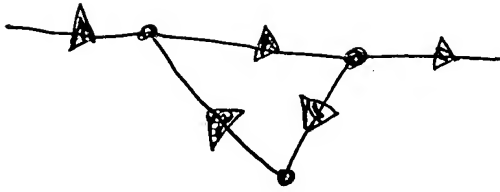


After Crossover

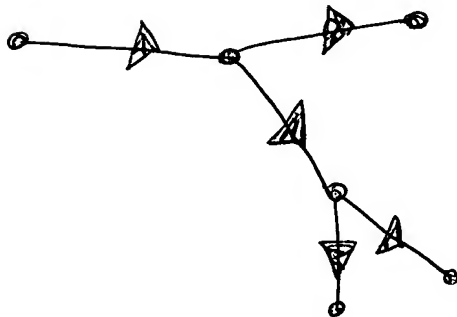


new external connection

DIRECTED GRAPHS



Graph with
cycle

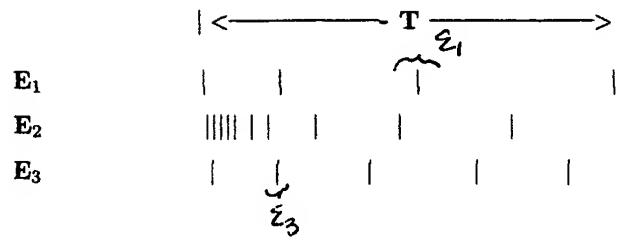


Graph with
no cycles

ERROR TOLERANCE IN EFFECTORS

EFFECTOR

FIRING TIMES



Effector Circuit

